

# MULTI-SLICE CT MULTI-LAYER FLEXIBLE SIGNAL TRANSMISSION DETECTOR CIRCUIT

## Abstract

A flexible detector array transmission circuit (12) for an x-ray imaging system (10) may include an electrically conductive substrate layer (70) that is electrically coupled to a detector (68). A mono-directional conductive layer (80) is also electrically coupled to the substrate layer (70). One or more flexible circuit layers (72) are electrically coupled to the mono-directional conductive layer (80). The circuit layers (72) direct x-ray signals, generated from the detector (68), to a data acquisition system (42).